PREPARED BY: SM CHECKED BY: DATE: 6/23/2003

PROJECT: California High Speed Train EIR/EIS

Storage Yard & Maintenance Facility

Sacramento

CONCEPTUAL CONSTRUCTION COST ESTIMATE

Item No.	DESCRIPTION	UNIT	UNIT COST (2003\$)	QUANTITY	Estimated Cost	Category Total Cos
1	Site Clearing					
	Site Clearing	HECT	\$7,700.00	9.40	\$72,380	
	Site Demolition	HECT	\$800,000.00	9.40	\$7,520,000	\$7,592,38
2	Earthwork	_				\$1,392,36
	Grading Site- Cut & Fill 1M Average	M3	\$7.50	94,000	\$705,000	
						\$705,00
3	Paving & Surfacing					
	Driveway / Service Road	M2 M2	\$40.00	16,800	\$672,000	
	Paved Area/Parking Spaces Maint. Path	M	\$40.00 \$150.00	20,000 3,200	\$800,000 \$480,000	
	THE TOTAL TOTAL		\$100.00	0,200	ψ100,000	\$1,952,00
4	Piped Utilities					, , , , , ,
	Drainage & Sanitary- track drainage	M	\$164.00	9,200	\$1,508,800	
	Drainage & Sanitary- sewer system- allow	M	\$260.00	1,500	\$390,000	
	Connection to Exist. Lines Sanitary Pump Station	Allow	\$100,000.00	1	\$100,000 \$80,000	
	Oil/ Water Separator	EA EA	\$80,000.00 \$135,000.00	1	\$135,000	
	Exist. Utility Lines Relocation/Protection	HECT	\$2,100,000.00	9.40	\$19,740,000	
	Water Distribution- allow	Allow	\$200,000.00	1	\$200,000	
						\$22,153,80
5	Site Improvements					
	Alum. Chain Link Fence	M	\$110.00	4,000	\$440,000	
	Signs Landacoping	Allow	\$30,000.00	1	\$30,000	1
	Landscaping	Allow	\$100,000.00	1	\$100,000	\$570,00
6	Track work					\$570,00
	Ballasted Track Incl. Ballast and subballast	M	\$430.00	9,200	\$3,956,000	
	Turnouts, no. 15 with Conc. Ties	EA	\$140,000.00	11	\$1,540,000	
	Diamond Crossover, no. 15 with Conc. Ties	EA	\$600,000.00	2	\$1,200,000	
	Heavy Duty Rubber Grade Crossing	Allow	\$300,000.00	1	\$300,000	ec one or
7	Yard Electrical Work	+				\$6,996,00
	Site Lighting, Distribution, High Mast Poles	EA	\$35,000.00	25.00	\$875,000	
	Electrical service to yard 480v	Allow	\$500,000.00	1	\$500,000	
	CCTV & Security System	Allow	\$200,000.00	1	\$200,000	
	Communication System	Allow	\$300,000.00	1	\$300,000	
	Transline Dawer	_				\$1,875,00
	Traction Power Double Ended SS	EA	\$5,000,000.00	1.0	\$5,000,000	
	OCS Incl. Hardware, Poles & Foundation	M	\$360.00	9,200	\$3,312,000	
						\$8,312,00
9	Train Control					
	Yard Train Control	Allow	\$1,500,000.00	1	\$1,500,000	£4 E00 00
10	Service and Inspection Facility Incl. Electrical & Mechanical Work	_				\$1,500,00
10	Service & Inspection Facility Service & Inspection Facility	M2	\$1,800.00	2,700	\$4,860,000	
	Inspection Pit	M	\$2,300.00	500	\$1,150,000	
	Inspection Pit Rail Support	M	\$945.00	500	\$472,500	
	Car Wash Building	M2 M2	\$1,300.00 \$1,800.00	1,000 700	\$1,300,000 \$1,260,000	
	Wheel Repair Facility	M2	\$1,800.00	700	\$1,260,000	
						\$9,042,50
11a	Maintenance Shop Equipment, Tools and Supplies-					
	Storage Equipment	LS	\$280,000.00	1	\$280,000	
	Shop Equipment Shop Work Station	LS LS	\$600,000.00	1	\$600,000	
	Cleaning Equipment		\$60,000,00			
	Car Component Repair & Test Equipment		\$60,000.00 \$80,000.00	1	\$60,000	
		LS LS	\$80,000.00 \$250,000.00	1 1 1	\$60,000 \$80,000 \$250,000	
	Wheel Truing Machine	LS LS Ea.	\$80,000.00 \$250,000.00 \$1,500,000.00	1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000	
	Wheel Truing Machine Welding Equipment	LS LS Ea. LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00	1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000	
	Wheel Truing Machine Welding Equipment Battery Equipment	LS LS Ea.	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00	1 1 1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000	
	Wheel Truing Machine Welding Equipment	LS LS Ea. LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00	1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000	
	Wheel Truing Machine Welding Equipment Battery Equipment Pretab. Storage Buildings Traveling Manifits Material Lift	LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$200,000.00	1 1 1 1 1 1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000 \$40,000 \$200,000	
	Wheel Truing Machine Welding Equipment Battery Equipment Perfab. Storage Buildings Traveling Manifits Material Lift Bridge Crane - Ston Capacity	LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000 \$40,000 \$200,000 \$30,000	
	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifest Material Lift Bridge Crane - 3ton Capacity Jib Cranes Various Capacity	LS LS Ea. LS LS LS LS LS LS LS LS LS Ea. Ea.	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$200,000.00 \$30,000.00 \$40,000.00 \$20,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000 \$40,000 \$30,000 \$40,000	
	Wheel Truing Machine Welding Equipment Battery Equipment Perfab. Storage Buildings Traveling Manifits Material Lift Bridge Craine - Storn Capacity Jib Cranes- Various Capacity Forklifs	LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000 \$40,000 \$200,000 \$30,000	
	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifest Material Lift Bridge Crane - 3ton Capacity Jib Cranes Various Capacity	LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$200,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$30,000.00	1 1 1 1 1 1 1 1 1 1 1 1 2	\$60,000 \$80,000 \$250,000 \$1,500,000 \$25,000 \$40,000 \$200,000 \$30,000 \$40,000 \$40,000 \$41,000	
	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Prefalb. Storage Buildings Traveling Manifts Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklifts Tools & Supplies	LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$200,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$30,000.00	1 1 1 1 1 1 1 1 1 1 1 1 2	\$60,000 \$80,000 \$250,000 \$1,500,000 \$25,000 \$40,000 \$200,000 \$30,000 \$40,000 \$40,000 \$41,000	
11c	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifts Material Lift Bridge Crane - 3ton Capacity Jib Cranes- Various Capacity Forklifts Tools & Supplies Car Wash	LS LS Ea. LS LS LS LS LS LS LS LS LS Allow	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$200,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$200,000.00 \$40,000.00 \$200,000.00 \$40,000.00 \$200,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000 \$40,000 \$30,000 \$40,000 \$40,000 \$140,000	
11c	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifits Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkiffs Tools & Supplies Car Wash	LS LS LS Ea. LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$100,000.00 \$100,000.00 \$20,000.00 \$40,000.00 \$20,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$60,000 \$80,000 \$15,000,000 \$60,000 \$60,000 \$25,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$140,000 \$100,000	
11c	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Bulldings Traveling Manifits Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkfits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer	LS LS Ea. LS LS LS LS LS LS LS LS LS Allow	\$80,000.00 \$250,000.00 \$1,500,000.00 \$60,000.00 \$25,000.00 \$40,000.00 \$200,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$200,000.00 \$40,000.00 \$200,000.00 \$40,000.00 \$200,000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$60,000 \$80,000 \$250,000 \$1,500,000 \$60,000 \$25,000 \$40,000 \$30,000 \$40,000 \$40,000 \$140,000	
11c	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifts Material Lift Bidge Crane - Ston Capacity Jib Cranes- Various Capacity Forklifts Tools & Supplies Car Wash Storage Car Wash	LS LS Ea. LS	\$80,000.00 \$250,000.00 \$1,500.000.00 \$1,500.000.00 \$25,000.00 \$25,000.00 \$40,000.00 \$200,000.00 \$30,000.00 \$40,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$255,000 \$1,500,000 \$25,000 \$40,000 \$20,000 \$4	
11c	Wheel Truing Machine Welding Equipment Battery Equipment Perfeat. Storage Buildings Traveling Manifits Material Litt Bridge Crane - Storn Capacity Jib Cranes- Various Capacity Forklits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing	LS LS LS Ea LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$1,500,000.00 \$25,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	
11c	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Prefab. Storage Buildings Traveling Manilist Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkifts Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Environmental Mitigation	LS LS LS Ea LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$1,500,000.00 \$25,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	
1110	Wheel Truing Machine Welding Equipment Battery Equipment Perfeat. Storage Buildings Traveling Manifits Material Litt Bridge Crane - Storn Capacity Jib Cranes- Various Capacity Forklits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing	LS LS LS Ea LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$1,500,000.00 \$25,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,00
1110	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Prefab. Storage Buildings Traveling Manilist Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkifts Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Environmental Mitigation	LS LS LS Ea LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$1,500,000.00 \$25,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	
1110	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifits Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkifits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded	LS LS LS Ea LS	\$80,000.00 \$250,000.00 \$1,500,000.00 \$1,500,000.00 \$25,000.00 \$25,000.00 \$40,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,00 \$4,55,170,00
1110	Wheel Truing Machine Welding Equipment Battery Equipment Perlab. Storage Buildings Traveling Marifits Material Llit Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkilits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,00 \$ \$65,170,00 \$9,775,50
111c	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Perfab. Storage Buildings Traveling Marilist Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklifts Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars)	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,00 \$ \$65,170,00 \$9,775,50
111c	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifist Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forkifis Tools & Supplies Car Wash Storage Cart Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,01 \$4,469,01 \$65,170,01 \$9,775,51
11c	Wheel Truing Machine Welding Equipment Battery Equipment Perfeat. Storage Buildings Traveling Manifes Material Litt Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,0 \$65,170,0 \$9,775,5
1110	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Prefab. Storage Buildings Traveling Marifist Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklifts Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,01 \$4,469,01 \$65,170,01 \$9,775,51
11c	Wheel Truing Machine Welding Equipment Battery Equipment Battery Equipment Fredab. Sucrage Buildings Traveling Manillat Material Lift Bridge Crane - Ston Capacity Jib Cranes- Vanious Capacity Forkilfts Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Micpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated)	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,01 \$4,469,01 \$65,170,01 \$9,775,51
1110	Wheel Truing Machine Welding Equipment Battery Equipment Perfeat. Storage Buildings Travelling Maritis Material Litt Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Cart Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Canting Sub-Construction Cost-Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,01 \$4,469,01 \$65,170,01 \$9,775,51
1116	Wheel Truing Machine Welding Equipment Battery Equipment Perfeab. Storage Buildings Traveling Manifits Material Litt Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,01 \$4,469,01 \$65,170,01 \$9,775,51
11c	Wheel Truing Machine Welding Equipment Battery Equipment Prefab. Storage Buildings Traveling Manifits Material Lift Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklifts Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10%	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,00 \$4,55,170,00
1110	Wheel Truing Machine Welding Equipment Battery Equipment Perfeab. Storage Buildings Traveling Manifits Material Litt Bridge Crane - Ston Capacity Jib Cranes- Various Capacity Forklits Tools & Supplies Car Wash Storage Central Vacuum Cleaning system Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost	LS LS LS Ea LS	\$80,000,00 \$250,000,00 \$1,500,000,00 \$60,000,00 \$25,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$40,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00 \$20,000,00	1 1 1 1 1 1 1 1 1 1 2 4 1	\$60,000 \$80,000 \$1,500,000 \$66,000 \$25,000 \$40	\$4,469,00 \$ \$65,170,00 \$9,775,50

Exclusions:
Real Estate
Central Operating Control System
Escalation to Mid-point of Construction
Environmental Mitigation
Engineering, CM, Inspection & owner's cost of administration
Contingencies

PREPARED BY: SM CHECKED BY: DATE: 6/23/2003 PARSONS BRINCKERHOFF PROJECT: California High Speed Train EIR/EIS

Storage Yard & Maintenance Facility

San Diego

CONCEPTUAL CONSTRUCTION COST ESTIMATE

14						
Item No.	DESCRIPTION	UNIT	UNIT COST (2003\$)	QUANTITY	Estimated Cost	Category Total Cos
1	Site Clearing Site Clearing	HECT	\$7,700.00	14.70	\$113,190	
	Site Demolition	HECT	\$800,000.00	14.70		
						\$11,873,190
2	Earthwork Grading Site- Cut & Fill 1 M Average	M3	\$7.50	147,000	\$1,102,500	
	Silt Fence	М	\$10.00	4,100	\$41,000	
_						\$1,143,500
3	Paving & Surfacing Driveway / Service Road- Along Yard	M2	\$40.00	16,800	\$672,000	
	Paved Area/Parking Spaces	M2	\$40.00	20,000	\$800,000	
	Maint. Path	М	\$150.00	3,200	\$480,000	
4	Piped Utilities					\$1,952,000
	Drainage & Sanitary- Track Drainage	М	\$164.00	16,500	\$2,706,000	
	Drainage & Sanitary- sewer system- allow	M	\$260.00	1,500	\$390,000	
	Connection to Exist. Lines Sanitary Pump Station	Allow EA	\$100,000.00 \$80,000.00	1	\$100,000 \$80,000	
	Oil/ Water Separator	EA	\$135,000.00	1	\$135,000	
	Exist. Utility Lines Relocation/Protection	HECT	\$2,100,000.00	14.70	\$30,870,000	
	Water Distribution- allow	Allow	\$200,000.00	1	\$200,000	\$34,481,00
5	Site Improvements					\$34,461,00
	Alum. Chain Link Fence	М	\$110.00	4,100	\$451,000	
	Signs Landonning	Allow	\$30,000.00	1	\$30,000	
	Landscaping	Allow	\$100,000.00	1	\$100,000	\$581,00
6	Track work	<u> </u>				ψ301,00
	Ballasted Track Incl. Ballast and subballast	M	\$430.00	16,500	\$7,095,000	
	Turnouts, no. 15 with Conc. Ties Diamond Crossover, no. 15 with Conc. Ties	EA EA	\$140,000.00 \$600,000.00	23	\$3,220,000 \$1,200,000	
	Heavy Duty Rubber Grade Crossing	Allow	\$300,000.00	1	\$300,000	
	Vand Flankrigel Week					\$11,815,00
	Yard Electrical Work Site Lighting, Distribution, High Mast Poles	EA	\$35,000.00	40.00	\$1,400,000	
	Electrical service to yard 480v	Allow	\$500,000.00	1	\$500,000	
	CCTV & Security System	Allow	\$200,000.00	1	\$200,000	
	Communication System	Allow	\$300,000.00	-	\$300,000	\$2,400,00
8	Traction Power					, , ,
	Substation OCS Incl. Hardware, Poles & Foundation	EA M	\$5,000,000.00 \$360.00	1.0 16,500	\$5,000,000 \$5,940,000	
	OCS IIICI. Halloware, Poles & Pouridation	IVI	\$300.00	10,300	\$5,540,000	\$10,940,000
9	Train Control					
	Yard Train Control	Allow	\$2,500,000.00	1	\$2,500,000	\$2,500,000
10	Service and Inspection Facility Incl. Electrical & Mechanical Work					\$2,500,000
	Service & Inspection Facility	M2	\$1,800.00	5,500	\$9,900,000	
	Inspection Pit Inspection Pit Rail Support	M M	\$2,300.00 \$945.00	1,000	\$2,300,000 \$945,000	
	Train Wash Building	M2	\$1,300.00	1,000	\$1,300,000	
	Wheel Repair Facility	M2	\$1,800.00	700	\$1,260,000	
						\$15,705,00
1a	Maintenance Shop Equipment, Tools and Supplies-					
	Storage Equipment Shop Equipment	LS LS	\$280,000.00 \$600,000.00	1	\$280,000 \$600,000	
	Shop Work Station	LS	\$60,000.00	1	\$60,000	
	Cleaning Equipment	LS	\$80,000.00	1	\$80,000	
	Car Component Repair & Test Equipment Wheel Truing Machine	LS Ea.	\$250,000.00 \$1,500,000.00	1	\$250,000 \$1,500,000	
	Welding Equipment	LS	\$60,000.00	1	\$60,000	
	Battery Equipment Prefab. Storage Buildings	LS LS	\$25,000.00 \$40.000.00	1	\$25,000 \$40,000	
	Pretab. Storage Buildings Traveling Manlifts	LS	\$40,000.00	1	\$40,000	
	Material Lift	LS	\$30,000.00	1	\$30,000	
	Bridge Crane - 3ton Capacity Jib Cranes- Various Capacity	Ea Ea.	\$40,000.00 \$20,000.00	1 2	\$40,000 \$40,000	
	Forklifts	Ea.	\$35,000.00	4	\$140,000	
	Tools & Supplies	Allow	\$100,000.00	1	\$100,000	
1b	Car Wash	1	+		-	
	Storage	LS	\$4,000.00	1	\$4,000	
	Central Vacuum Cleaning system Steam Cleaner Pressure Washer	LS LS	\$40,000.00 \$80,000.00	1	\$40,000 \$80,000	
	Steam Cleaner Pressure Washer Car Wash Equipment Installation & Plumbing	LS	\$900,000.00	1	\$80,000	
						\$4,469,00
	Environmental Mitigation Excluded	 	+			
	LAGUAGA				1	\$
	Sub-Total					\$97,860,000
	Mobilization & Indirect Field Cost		15%			\$14,679,00
	Subtotal- Construction Cost- Base (year 2003 dollars)					\$112,540,000
		<u> </u>	<u> </u>			
	Contingencies					
	Escalation to Midpoint of Construction- not included				i	
	Escalation to Midpoint of Construction- not included Right of way Acquisition					
	Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated)					
	Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering					
	Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated)					
	Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering					
	Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10%					
	Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost					

Exclusions:
Real Estate
Central Operating Control System
Escalation to Mid-point of Construction
Environmental Mitigation
Engineering, CM, Inspection & owner's cost of administration
Contingencies

PROJECT: California High Speed Train EIR/EIS

Storage Yard & Maintenance Facility

Bay Area (Los Banos)

CONCEPTUAL CONSTRUCTION COST ESTIMATE

Item No.	DESCRIPTION	UNIT	UNIT COST (2003\$)	QUANTITY	Estimated Cost	Category Total Cost
1	Site Clearing					
	Site Clearing	HECT	\$7,700.00	10.00	\$77,000	
	Site Demolition	HECT	\$800,000.00	10.00	\$8,000,000	\$8,077,00
2	Earthwork					\$8,077,000
	Grading Site- Cut & Fill 1M Average	M3	\$7.50	100,000	\$750,000	\$750.00°
3	Paving & Surfacing					\$750,00
	Driveway / Service Road	M2	\$40.00	16,800	\$672,000	
	Paved Area/Parking Spaces Maint, Path	M2 M	\$40.00 \$150.00	20,000 3,200	\$800,000 \$480,000	
	Thank I day		\$100.00	0,200	\$100,000	\$1,952,00
4	Piped Utilities Drainage & Sanitary- track drainage	М	6404.00	40.400	\$1,984,400	
	Drainage & Sanitary- track drainage Drainage & Sanitary- sewer system- allow	M	\$164.00 \$260.00	12,100 1,500	\$390,000	
	Connection to Exist. Lines	Allow	\$100,000.00	1	\$100,000	
	Sanitary Pump Station Oil/ Water Separator	EA EA	\$80,000.00	1	\$80,000	
	Exist. Utility Lines Relocation/Protection	HECT	\$135,000.00 \$2,100,000.00	10.00	\$135,000 \$21,000,000	
	Water Distribution- allow	Allow	\$200,000.00	1	\$200,000	
	Site Improvements					\$23,889,40
	Site Improvements Alum. Chain Link Fence	М	\$110.00	2,000	\$220,000	
	Signs	Allow	\$30,000.00	1	\$30,000	
	Landscaping	Allow	\$100,000.00	1	\$100,000	\$350,00
6	Track work					4000,00
	Ballasted Track Incl. Ballast and subballast	М	\$430.00	12,100	\$5,203,000	
	Turnouts, no. 15 with Conc. Ties Diamond Crossover, no. 15 with Conc. Ties	EA EA	\$140,000.00 \$600,000.00	27 3	\$3,780,000 \$1,800,000	
	Heavy Duty Rubber Grade Crossing	Allow	\$300,000.00	1	\$300,000	
				· ·	,	\$11,083,00
7	Yard Electrical Work Site Lighting, Distribution, High Mast Poles	EA	\$35,000.00	27.00	\$945,000	
	Electrical service to yard 480v	Allow	\$500,000.00	27.00	\$500,000	
	CCTV & Security System	Allow	\$200,000.00	1	\$200,000	
	Communication System	Allow	\$300,000.00	1	\$300,000	\$1,945,00
8	Traction Power					\$1,543,00
	Double Ended SS	EA	\$5,000,000.00	1.0	\$5,000,000	
	OCS Incl. Hardware, Poles & Foundation	M	\$360.00	12,100	\$4,356,000	\$0.2E6.00
9	Train Control					\$9,356,000
	Yard Train Control	Allow	\$3,000,000.00	1	\$3,000,000	
40	Service and Inspection Facility Incl. Electrical & Mechanical Work					\$3,000,000
10	Service & Inspection Facility Incl. Electrical & Mechanical Work	M2	\$1,800.00	2,600	\$4,680,000	
	Inspection Pit	М	\$2,300.00	430	\$989,000	
	Inspection Pit Rail Support Car Wash Building	M M2	\$945.00 \$1,300.00	430 1,000	\$406,350 \$1,300,000	
	Wheel Repair Facility	M2	\$1,800.00	700	\$1,260,000	
11a	Maintenance Shop Equipment, Tools and Supplies-					\$8,635,35
i i a	Storage Equipment	LS	\$280,000.00	1	\$280,000	
	Shop Equipment	LS	\$600,000.00	1	\$600,000	
	Shop Work Station Cleaning Equipment	LS LS	\$60,000.00 \$80,000.00	1	\$60,000 \$80,000	
	Car Component Repair & Test Equipment	LS	\$250,000.00	1	\$250,000	
	Wheel Truing Machine	Ea.	\$1,500,000.00	1	\$1,500,000	
	Welding Equipment Battery Equipment	LS	\$60,000.00 \$25,000.00	1	\$60,000 \$25,000	
	Prefab. Storage Buildings	LS	\$40,000.00	1	\$40,000	
-	Traveling Manlifts	LS	\$200,000.00	1	\$200,000	-
	Material Lift Bridge Crane - 3ton Capacity	LS Ea	\$30,000.00 \$40,000.00	1	\$30,000 \$40,000	
	Jib Cranes- Various Capacity	Ea.	\$20,000.00	2	\$40,000	
-	Forklifts	Ea.	\$35,000.00	4	\$140,000	-
	Tools & Supplies	Allow	\$100,000.00	1	\$100,000	
11c	Car Wash					
-	Storage	LS	\$4,000.00	1	\$4,000	
	Central Vacuum Cleaning system Steam Cleaner Pressure Washer	LS LS	\$40,000.00 \$80,000.00	1	\$40,000 \$80,000	
		LS	\$900,000.00	1	\$900,000	
	Car Wash Equipment Installation & Plumbing		1			\$4,469,00
	Environmental Mitigation					
	Environmental Mitigation Excluded					
	Environmental Mitigation Excluded Sub-Total					\$73,510,00
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars)		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal-Construction Cost-Base (year 2003 dollars) Contingencies		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Confingencies Escalation to Midpoint of Construction- not included		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal-Construction Cost-Base (year 2003 dollars) Contingencies		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition		15%			\$73,510,00 \$11,026,50 \$84,540,00
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction-not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated)		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs ® 10%		15%			\$73,510,00 \$11,026,50
	Environmental Mitigation Excluded Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost		15%			\$73,510,00 \$11,026,50

Exclusions:
Real Estate
Central Operating Control System
Escalation to Mid-point of Construction
Engineering, CM, Inspection & owner's cost of administration
Contingencies

PROJECT: California High Speed Train EIR/EIS

Storage Yard & Main Repair Facility Central Valley

CONCEPTUAL CONSTRUCTION COST ESTIMATE

Part	Item No.	DESCRIPTION	UNIT	UNIT COST (2003\$)	QUANTITY	Estimated Cost	Category Total Cost
Since Country	1	Site Clearing					
Section Sect		Site Clearing					
Section Sect		Site Demolition	HECT	\$800,000.00	39.84	\$31,872,000	\$32,178,768
SP Process			140	#7.50	000 400	A 0.000.000	
		Grading Site- Cut & Fill 1M Average Sitt Fence					
December Section Field December Dece							\$3,040,000
Post Anamanana Section	3		M2	\$40.00	20.800	\$832.000	
A Paped Milliane							
Darring & Sentiny 1906 careage	4	Piped Utilities					\$2,032,000
Convenience East Less		Drainage & Sanitary- track drainage					
Secretary Pump Distoro							
Establish Links Reconstruction HECT \$2,000,000 \$2,000 \$50,000 \$60,100.00 \$60,1		Sanitary Pump Station	EA	\$80,000.00		\$80,000	
Water Directions above Abev \$500,000 1 \$50,000		Oil/ Water Separator Exist Utility Lines Relocation/Protection					
Size Improvements							
Abril Charl Line Force	5	Sita Improvements					\$89,108,200
Gertschaping	,		М		5,200		
Track work							
Extract work		Lairuscapiiry	AllOW	\$100,000.00	1	\$100,000	\$712,000
Furnica, no. 15 with Court. Tea				6400.00	05.000	\$40.070.000	
Description Communication Section Sect		Turnouts, no. 15 with Conc. Ties	EA	\$140,000.00	43	\$6,020,000	
Trace Recircial Work FA \$55,000 105,00 \$15,0		Diamond Crossover, no. 15 with Conc. Ties	EA	\$600,000.00	2	\$1,200,000	
Service and Imperior Distriction in High Medi Poles EA			Allow	\$500,000.00	-	\$500,000	\$18,599,000
Exercid service to year - 460v			FΛ	\$35,000,00	105.00	\$3.675.000	
Communication System		Electrical service to yard 480v		\$500,000.00		\$500,000	
STraction Power Straction Flower Straction Flower Straction Flower Straction Flower Straction M \$560,000 25,000 \$1,500,000						\$400,000	
Scatastion			Allow	\$400,000.00		\$400,000	\$4,975,000
OCS Incl. Hardware, Potes & Foundation			FA	\$5,000,000,00	1.0	\$5,000,000	
Year Train Control		OCS Incl. Hardware, Poles & Foundation					\$14,108,000
10 Service and Inspection Facility Incit. Electrical & Mechanical Work M2 \$1,800.00 4,200 \$7,560.00 \$7,560.00 \$1,000.00 \$1			Allow	\$4.500.000.00	1	\$4.500.000	
Service & Impection Peth M2				7.1000100000		7 1,000,000	\$4,500,000
Wheel Truse			M2	\$1,800.00	4,200	\$7,560,000	
Wheel Trust		Inspection Pit					
Material Inventory & Distribution M2		Wheel Truer				\$900,000	
Running Regaint & Track Shop		Wheel Shop					
113 Maintenance Shop Equipment, Tools and Supplies		Running Repair & Truck Shop	M2	\$1,800.00	13,200	\$23,760,000	
		Heavy Repair, Support Shop & Overhaul	M2	\$1,800.00	9,000	\$16,200,000	\$71.305.800
Dock Lifs							Ç 1 1,000,000
Rail Car Spray Booth Shey Wink Station LS \$60,000.00 1 \$400,000 Shop Equipment LS \$600,000.00 1 \$600,000 Stam Cleaner Pressure Washer LS \$250,000.00 1 \$600,000 Stam Cleaner Pressure Washer LS \$250,000.00 1 \$600,000 Wheel Trung Machine Ea \$1500,000.00 1 \$600,000 Wheel Trung Machine LS \$250,000.00 1 \$600,000 Wheel Trung Machine LS \$600,000.00 1 \$6							
Shop Equipment		Rail Car Spray Booth	LS	\$400,000.00		\$400,000	
Cleaning Equipment		Shop Equipment	LS	\$600,000.00		\$600,000	
Steam Cleaner Pressure Washer							
Wheel Truing Machine		Steam Cleaner Pressure Washer	LS	\$40,000.00	1	\$40,000	
Welding Equipment		Car Component Repair & Test Equipment					
Prefeb. Storage Buildings		Welding Equipment	LS	\$60,000.00	1	\$60,000	
Traveling Manifes		Battery Equipment					
Carl Hoist System		Traveling Manlifts	LS	\$200,000.00	1	\$200,000	
Potable car Hoist System				\$30,000.00 \$1,200,000.00			
Sacking Carriage Ea. \$50,000.00 1 \$50,000 Bridge Crane - 3ton Capacity Ea \$40,000.00 2 \$820,000 Bridge Crane - 3ton Capacity Ea \$40,000.00 2 \$220,000 Bridge Crane - 3to To ton Capacity Ea \$50,000 3 \$105,000 Bridge Crane - 3to To ton Capacity Ea \$50,000 3 \$105,000 Bridge Crane - 3to To ton Capacity Ea \$50,000 0 \$105,000 Bridge Crane - 3ton Capacity Ea \$50,000 6 \$120,000 Bridge Crane - 3ton Capacity Ea \$50,000 6 \$120,000 Bridge Crane - 3ton Capacity Ea \$50,000 10 \$500,000 Forkilits Ea \$50,00			LS			\$210,000	
Bridge Crane - 10 ton Capacity		Jacking Carriage	Ea.	\$50,000.00	1	\$50,000	
Monoralis		Bridge Crane - 3ton Capacity Bridge Crane - 10 ton Capacity				\$80,000	
Turntables		Monorails	Ea	\$35,000.00	3	\$105,000	
Forkilits		Jib Cranes- Various Capacity Turntables		\$20,000.00 \$60.000.00		\$120,000 \$600,000	
Environmental Mitigation Excluded Sub-Total Sub-Tota		Forklifts	Ea.	\$35,000.00	4	\$140,000	
Excluded Sub-Total Sub-Total Mobilization & Indirect Field Cost Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering		100is & Supplies	Allow	\$200,000.00	1	\$200,000	\$7,110,000
Sub-Total \$247,670,0 Mobilization & Indirect Field Cost \$15% \$327,150,5 Subtotal- Construction Cost- Base (year 2003 dollars) \$284,820,0 Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition \$100 Construction Cost (Not Escalated) \$100 Construction Co		Environmental Mitigation					
Mobilization & Indirect Field Cost 15% \$37,150,55 Subtotal- Construction Cost- Base (year 2003 dollars) \$284,820,00 Contingencies Continue of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering							\$0
Subtotal- Construction Cost- Base (year 2003 dollars) Contingencies Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering							\$247,670,000
Escalation to Midpoint of Construction- not included Right of way Acquisition Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering Owner Administration & Engineering				15%			\$37,150,500 \$284,820,000
Subtotal- Construction Cost (Not Escalated) Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering		Escalation to Midpoint of Construction- not included					
Project Conceptual & Preliminary Engineering Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering						-	
Final Engineering Design Cost Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering		<u> </u>					
Construction Management & Inspection Costs @ 10% Field Changed Condition Owner Administration & Engineering							
Field Changed Condition Owner Administration & Engineering							
Owner Administration & Engineering							
		Field Changed Condition Owner Administration & Engineering					

Exclusions:
Real Estate
Central Operating Control System
Escalation to Mid-point of Construction
Engineering, CM, Inspection & owner's cost of administration
Contingencies